

From: Topinka, Natalie  
Sent: Monday, February 12, 2018 04:28 PM  
To: Sorrell, Virginia  
Subject: RE: Updated NSPS Tank Information

Ginny,

Here's some R5 data.

**Ex. 5 Deliberative Process (DP)**

# Ex. 5 Deliberative Process (DP)

Natalie

OWNER NAME

# of wells

# well pads

2016 oil prod (bbl)

est # of tanks

CHESAPEAKE APPALACHIA LLC

110

35

2,830,232

280

ASCENT RESOURCES UTICA LLC

43

11

1,938,386

88

ECLIPSE RESOURCES I LP

19

7

895,972

56

R E GAS DEVELOPMENT LLC

13

5

486,261

40

CNX GAS COMPANY LLC

8

3

322,521

24

ANTERO RESOURCES CORPORATION

56

19

293,550

152

HESS OHIO DEVELOPMENTS LLC

15

3

268,694

24

PDC ENERGY

7

3

207,983

24

CHEVRON APPALACHIA LLC

3

1

98,100

8

GULFPORT ENERGY CORPORATION

17

6

34,914

48

Totals top 10

291

93

7,376,613

744

ENERVEST OPERATING LLC

1

1

17,627

4

ARTEX OIL COMPANY

6

6

14,814

24

MARKSMEN ENERGY USA INC

1

1

13,223

4

OHIO VALLEY ENERGY SYSTEM CORP

3

3

4,421

12

DUGAN OIL AND GAS LLC

3

3

2,521

12

EXCALIBUR EXPLORATION INC

2

2

2,358

8

BI JOE DEVELOPMENT INC

1

1

2,239

4

DERRICK PETROLEUM INC

3

1

1,610

4

HARLEY DRILLING & PRODUCING

1

1

765

4

JAMES R BERNHARDT INC

2

2

742

8

NATIONAL ENERGY EXP INC

1

1

514

4

DAVID R HILL INC

1

1

489

4

FO ENERGY LLC

1

1

433

4

DISCOVERY OIL AND GAS

1

1

358

4

ELKHEAD GAS & OIL CO

1

1

184

4

FLAT ROCK DEVELOPMENT LLC

1

1

175

4

NORTHWOOD ENERGY CORP

1

1

70

4

MFC DRILLING INC

1

1

52

4

Totals remainder

31

29

62,595

116

Total all

322

122

7,439,208

860

From: Sorrell, Virginia

Sent: Thursday, February 08, 2018 9:42 AM

To: Mia, Marcia <Mia.Marcia@epa.gov>; Kaleri, Cynthia <kaleri.cynthia@epa.gov>;  
Lawrence, Rob <Lawrence.Rob@epa.gov>; Gregory, John <Gregory.John@epa.gov>; Vyas,  
Himanshu <vyas.himanshu@epa.gov>; Topinka, Natalie <topinka.natalie@epa.gov>; Beeler,

Cindy <Beeler.Cindy@epa.gov>; Lischinsky, Robert <Lischinsky.Robert@epa.gov>; North, Alexis <North.Alexis@epa.gov>

Subject: FW: Updated NSPS Tank Information

Hi all,

Below is data that Alex North was able to compile from the 0000/0000a reports that Region 8 receives for North Dakota.

Ex. 5 Deliberative Process (DP)

## Ex. 5 Deliberative Process (DP)

Thanks,

Ginny

Virginia Sorrell

Air Enforcement Division

Office of Civil Enforcement

U.S. Environmental Protection Agency

Phone: 303-312-6669

This email, including attachments, may contain material that is confidential, privileged, and/or attorney work product.

From: North, Alexis

Sent: Thursday, February 1, 2018 10:09 AM

To: Sorrell, Virginia <Sorrell.Virginia@epa.gov>

Subject: Updated NSPS Tank Information



Ginny,

Here is a much more thoughtful snapshot of NSPS 0000/0000a tank applicability in North Dakota.

Call me with questions or if you need more.

Thanks,

Alex

10/2013-10/2014

10/2014-10/2015

10/2015-10/2016

10/2016-10/2017

8/2016-8/2017

Top 10 North Dakota Operators

# wells

bbl oil last 12 months

Estimated # tanks\*\*

#0000 storage vessels

# 0000 storage vessels

# 0000 storage vessels

# 0000 storage vessels

#0000a storage vessels

WHITING PETROLEUM CORPORATION

1449

40,033,276

5,072

0 tanks

0 tanks

96 tanks

at 19 wells

52 tanks

at 7 wells

NO REPORT

CONTINENTAL RESOURCES, INC.

1422

40,030,545

4,977

NO REPORT

NO REPORT

NO REPORT

NO REPORT

LDAR reporting only

HESS BAKKEN INVESTMENTS II, LLC

1395

32,931,085

4,883

No tanks, compressors and gas plant

No tanks, compressors and gas plant

No tanks, compressors and gas plant

No tanks, compressors and gas plant

LDAR reporting only

EXXON MOBIL CORPORATION

889

25,346,288

3,112

As XTO, no tanks, compressors only

As XTO, no tanks, compressors only

Missing report

As XTO, no tanks, compressors only

LDAR reporting only

OASIS PETROLEUM NORTH AMERICA LLC

874

25,255,929

3,059

NO REPORT

NO REPORT

NO REPORT

NO REPORT

NO REPORT

EOG RESOURCES INCORPORATED

702

22,906,270

2,457

Missing report

No tanks, compressors only

No tanks, compressors only

No tanks, compressors only

LDAR reporting only

CONOCOPHILLIPS COMPANY

612

25,305,613

2,142

267 tanks

at 27 well pads

Deviations only

Deviations only

Deviations only

LDAR reporting only

STATOIL OIL & GAS LP

589

17,832,254

2,062

100ish tanks

at 51 well sites

Missing report

50ish tanks

at 18 well sites

>250 tanks

at 111 tank batteries

NO REPORT

MARATHON OIL COMPANY

528

18,064,570

1,848

218 tanks

at 33 well pads

~300 tanks

at 62 well pads

~300 tanks

at 62 well pads

~300 tanks

at 62 well pads

94 tanks

at 15 pads

QEP ENERGY COMPANY

377

16,747,505

1,320

Missing report

83

at 12 pads

85

at 12 pads

85 tanks

at 12 pads

29 tanks

at 3 pads

## **Ex. 5 Deliberative Process (DP)**

Alexis North, Environmental Scientist

Office of Enforcement, Compliance & Environmental Justice

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